7-1 (Rev. 7-10-06)

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FBI Laboratory

2501 Investigation Parkway
Quantico, Virginia 22135

REPORT OF EXAMINATION

To: Boston
C3
Kristin Koch

Date: July 8, 2013

Case ID No.: 415M-BS-2814367

Lab No.: 130420100 AAR ABP

Reference: Communication dated April 23, 2013

Your No.:

Title: UNSUBS;
4/15/2013 Boston Marathon Bombing.
IT

Date specimens received: April 20, 2013 and April 21, 2013

The specimens listed below were received in the Latent Print Operations Unit:

Specimens from [redacted]

Q575 Transmitter, eight (8) batteries, and wires (1B826, E5180946)

Q575.1 Nine (9) pieces of tape from Q575 (1B826, E5180946)

Q576 Pressure cooker pot (1B827, E5180943)

Q577 Metal fragment (1B834, E5180938)

Q578 Black plastic (1B830, E5180942)

Q579 Metal fragment (1B832, E5180940)

Q580 Metal fragment (1B833, E5180939)

Q581 Metal fragment (1B829, E5180936)

Q582 Switch (1B845, E5180944)

1 – 415E-BS-2823795-CRIM

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Q582.1	Tape from Q582 (1B845, E5180944)
Q583	Metal end cap, metal pipe elbow with metal end cap attached, and BBs (Item #1W17, E5181155)
Q583.1	Tape from Q583 (Item #1W17, E5181155)
Q584	Metal end cap, metal pipe nipple with metal end cap attached, BBs, and fuse (Item #1W21, E5181159)
Q584.2	Tape from Q584 (Item #1W21, E5181159)
Q586	Metal fragment (1B835, E5180937)
Q587	Metal fragment (1B831, E5180941)
Q588	Pressure cooker pot lid (1B828, E5180945)
Q589	Document beginning "No. 37…" from inside the computer bag (1B836, E5180947)
Q589.1	Diploma dated June 8, 2006 from inside the computer bag (1B836, E5180947)
Q589.2	Black folder from inside the computer bag (1B836, E5180947)
Q589.3	Document beginning "Quick enroll…" from inside the computer bag (1B836, E5180947)
Q589.4	Document beginning "MK103…" from inside the computer bag (1B836, E5180947)
Q589.5	Document beginning "Phone (617) 349-6630…" from inside the computer bag (1B836, E5180947)
Q589.6	Pulsar instruction manual from inside the computer bag (1B836, E5180947)
Q589.7	Page from Q589.6 (1B836, E5180947)
Q593	9V battery (Your #1W-25, E5180477)
Q599	Black plastic (Your #1W-34, E5179248)
Q600	Lighter (Your #1W-54, E5179268)
Q600.1	Lighter (Your #1W-54, E5179268)

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Q601	White lighter (Your #1W-41, E5179255)
Q602	Metal (Your #1W-57, E5179271)
Q604	Tape (Your #1W-46, E5179260)
Q606	Paper (Your #1W-49, E5179263)
Q607	Wire (Your #1W-45, E5179259)
Q608	Green wire (Your #1W-33, E5179247)
Q609	Metal fragments (Your #1W-31, E5179245)
Q610	Metal fragment (Your #1W-30, E5179244)
Q611	Metal fragment (Your #1W-32, E5179246)
Q612.1	Tape from Q612 (Your #1W-29, E5179243)
Q613	Metal fragment (Your #1W-27, E5179241)
Q614	Metal fragment (Your #1W-39, E5179253)
Q615	Cardboard (Your #1W-51, E5179265)
Q616	Cardboard (Your #1W-52, E5179266)
Q620	Debris (Your #1W-43, E5179257)
Q622	Metal fragment (Your #1W-68, E5179282)
Q623	Metal fragment (Your #1W-71, E5179285)
Q629	Metal fragment (Your #1W-75, E5179289)
Q630	Metal fragment (Your #1W-86, E5179312)
Q631	Metal fragment (Your #1W76-, E5179290)
Q634	Metal fragment (Your #1W-99, E5179301)
Q635	BBs (Your #1W-72, E5179286)

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Q636	Cardboard (Your #1W-78, E5179292)
Q641.1	Tape from Q641 (Your #1W-80, E5179294)
Q643	Black tape (Your #1W-97, E5179303)
Q645	Metal fragment (Your #1W-79, E5179293)
Q647	Black tape (Your #1W-102, E5179298)
Q648	Metal fragment (Your #1W-89, E5179317)
Q649	Black plastic (Your #1W-103, E5179297)
Q651	Bubble wrap (Your #1W-88, E5179316)
Q653	Metal fragment (Your #1W-77, E5179291)
Q654	Black plastic (Your #1W-84, E5179308)
Q655	Metal fragment (Your #1W-95, E5179305)
Q656	Black tape (Your #1W-101, E5179299)
Q657	Gray plastic (Your #1W-100, E5179300)
Q658	Black plastic (Your #1W-94, E5179306)
Q659	Black plastic (Your #1W-91, E5179313)
Q660	Black plastic (Your #1W-90, E5179314)
Q663	Metal fragment (Your #1W-81, E5179295)

This report documents the friction ridge print examinations conducted by Examiners Nicole C. Cover, D. J. Fife, Elaina Graff, Ashley Parish, and Michelle Reznicek. An examiner's initials appearing throughout this report indicate agreement with his or her conclusions. The signatures of the aforementioned examiners appear at the end of the report.

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Results of Examinations:

The following table lists the name and Universal Control Number (UCN) for each individual named for comparison in the captioned request, as well as the known prints available for comparison and an assigned letter designation which will be used in the Results of Comparisons table in this report:

Name	UCN	Letter Designation	Available Knowns
TAMERLAN TSARNAEV	452152ED3	A	Fingerprints and palm prints
DZHOKHAR A. TSARNAEV	373341VD4	B	Fingerprints and right palm print
[redacted]	[redacted]	C	[redacted]
[redacted]		D	
		E	
		F	
		G	
		H	

The following table contains the number of latent prints of value detected per specimen in the captioned request and the results of the latent print comparisons conducted by the corresponding examiner. No latent prints of value were detected on the specimens not listed in this table.

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Results of Comparisons										
Examiner's Initials:										
Specimen Number	Page Number	Fingerprint	Palm Print	Impression	Total		Compared to	Comparisons		Examiner
		FP	PP	IMP				Identification	Exclusion	
Q575	--	3	0	0	3	3 FP	A-D	A	---	MR
Q588	--	1	0	0	1	1 FP	A-D	A	---	DJF
Q589	--	3	1	1	5	2 FP	A-H	---	A-H	NCC
						1 PP	A-C, E-H	---	A-C, E-H	
						1 IMP	A-H	---	A-H	MR
						1 FP	A-D	A	---	AMP
Q589.1	--	1	2	0	3	1 FP	A-D	A	---	NCC
						2 PP	A-C	C	---	
Q589.3	--	4	2	0	6	4 FP	A-D	A	---	NCC
						2 PP	A-C	A	---	
Q589.4	--	4	0	0	4	4 FP	A-D	A	---	AMP
Q589.5	--	3	0	0	3	3 FP	A-D	A	---	AMP
Q589.6	12	2	0	0	2	2 FP	A-D	A	---	AMP
Q589.6	25	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.6	26	2	0	0	2	2 FP	A-D	A	---	AMP
Q589.6	29	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.6	45	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.6	84	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.6	87	4	0	0	4	4 FP	A-D	A	---	AMP
Q589.6	88	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.7	85	1	0	0	1	1 FP	A-D	A	---	AMP
Q589.7	86	2	0	0	2	2 FP	A-D	A	---	AMP
Total:		35	5	1	41					

Automated fingerprint searches were conducted, but no identification was effected. A print was added to the Unsolved Latent File (ULF), and you will be advised by a supplemental report if an identification is made.

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Table Summary:

Thirty three latent fingerprints and two latent palm prints have been identified as fingerprints and palm prints of TAMERLAN TSARNAEV, UCN 452152ED3, as follows:

- Three fingerprints on Q575, a transmitter
- One fingerprint on Q588, a pressure cooker pot lid
- One fingerprint on Q589, a document beginning "No. 37…" from inside the computer bag
- One fingerprint on Q589.1, a diploma dated June 8, 2006 from inside the computer bag
- Four fingerprints and two palm prints on Q589.3, a document beginning "Quick enroll…" from inside the computer bag
- Four fingerprints on Q589.4, a document beginning "MK103…" from inside the computer bag
- Three fingerprints on Q589.5, a document beginning '[redacted]…" from inside the computer bag
- Thirteen fingerprints on Q589.6, a Pulsar instruction manual from inside the computer bag
- Three fingerprints on Q589.7, a page from Q589.6

Two latent palm prints detected on Q589.1, a diploma dated June 8, 2006, from inside the computer bag, have been identified as palm prints of [redacted]

The remaining latent prints were compared with the available prints of TAMERLAN TSARNAEV, DZHOKHAR TSARNAEV, [redacted] but no further identifications were effected.

Methods:

Items of evidence submitted to the Latent Print Operations Unit for examination may be examined visually, examined with various light sources, and/or processed with chemicals and powders to detect the presence of latent friction ridge prints. The specific sequence of examinations and processes depends upon the nature of the evidence.

Friction ridge print examinations are conducted using the Analysis, Comparison, Evaluation, and Verification methodology (ACE-V), which includes an assessment of the quantity and quality of the information present. The steps of ACE-V are applied to each examination as appropriate.

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Analysis is the assessment of a friction ridge print to determine if sufficient reliable details are present to conduct a comparison with another print and to reach an identification conclusion. If these conditions are met, the print is determined to be of value.

Comparison is the direct side-by-side observation of friction ridge prints of value to determine whether or not the information in two prints is in agreement.

Evaluation is the formulation of a conclusion based on the information gathered during the analysis and comparison of the friction ridge prints.

Conclusions that can be reached are as follows:

- Identification - the determination that there is sufficient quality and quantity of detail in agreement to conclude that two friction ridge prints originated from the same source.

- Exclusion - the determination that there is sufficient quality and quantity of detail in disagreement to conclude that two friction ridge prints did not originate from the same source.

- Inconclusive - the determination that corresponding areas of friction ridge prints are absent and/or unreliable and therefore cannot be identified or excluded.

Verification is the independent application of the analysis, comparison, and evaluation phases of the ACE-V methodology to a friction ridge print by another examiner.

Interpretations:

The presence of a friction ridge print on an item of evidence indicates contact was made between the source and the item of evidence. The presence of a friction ridge print alone does not necessarily indicate the significance of the contact or the time frame during which the contact occurred.

Due to the many factors involved in the deposition of a friction ridge print, neither the absence of a friction ridge print on evidence nor the exclusion of a friction ridge print with a given source disassociate that source from having touched the evidence.

Remarks:

No latent print examinations were conducted on Q606 or Q635.

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The known prints of [redacted] should be retained in your files for possible future court use. The individual who recorded these prints will be a necessary witness.

For questions about the content of this report, please contact Physical Scientist/Forensic Examiner Elaina Graff at [redacted]

For questions about the status of your submission, including any remaining forensic examinations, please contact Request Coordinator Edward S. Knapp Jr. at [redacted]

The specimens and photographs of the detected latent prints of value are being returned under separate cover. The supporting records for the opinions and interpretations expressed in this report are retained in the FBI files.

Nicole C. Cover (NCC)

D. J. Fife (DJF)

Ashley M. Parish (AMP)

Michelle Reznicek (MR)

Elaina Graff (EG)
Latent Print Operations Unit

This report contains the opinions/interpretations of the examiner(s) who issued the report.